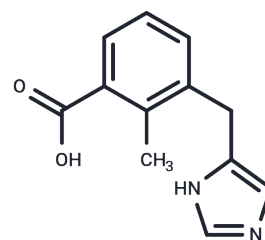


Detomidine carboxylic acid

Chemical Properties

CAS No. :	115664-39-6
Formula:	C ₁₂ H ₁₂ N ₂ O ₂
Molecular Weight:	216.24
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Detomidine carboxylic acid is the main urine metabolite of detomidine. Detomidine is a synthetic α 2-adrenergic agonist and an animal analgesic. Detomidine also has heart and breathing effects, and has a diuretic effect.
Targets(IC50)	Adrenergic Receptor
In vivo	After oral administration of Detomidine, an analgesic sedative for large animals, to two stallions and intravenous injection of [3H]-Detomidine into mares, the metabolites in horse urine were studied. After oral doses, a combination of totomidine carboxylic acid and hydroxytomtomidine glucuronic acid was identified in the urine. About 12 hours after the intravenous injection, about half of the radioactivity of [3H]-tomtomidine was excreted into the urine. Dose (80 μ g/kg). Compared with the highest urine output 2 to 5 hours after urination, most excretion occurs between 5 and 12 hours. The main radioactive metabolite in urine is totomidine carboxylic acid. In all collected urine fractions, totomidine carboxylic acid accounts for more than two-thirds of the total metabolites.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6245 mL	23.1225 mL	46.2449 mL
5 mM	0.9249 mL	4.6245 mL	9.249 mL
10 mM	0.4624 mL	2.3122 mL	4.6245 mL
50 mM	0.0925 mL	0.4624 mL	0.9249 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Salonen JS, et al. Identification of detomidine carboxylic acid as the major urinary metabolite of detomidine in the horse. *Eur J Drug Metab Pharmacokinet.* 1992 Jan-Mar;17(1):13-20.

Virtanen R, et al. Pharmacological evidence for the involvement of alpha-2 adrenoceptors in the sedative effect of detomidine, a novel sedative-analgesic. *J Vet Pharmacol Ther.* 1985 Mar;8(1):30-7.

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